

## ABSTRACT

A fiber optic transmitter and/or transceiver adapted for use in an optical fiber data transmission system which is capable of transmitting data at high data rates in  
5 burst mode is disclosed. An analog dual loop automatic power control circuit samples monitored laser power peak and valley levels and uses them for modulation and bias laser driver control. These levels compensate for variations in laser power due to temperature variations or other factors. The sampled peak and valley levels are held between bursts in an analog level memory and are  
10 reestablished on a burst by burst basis. The optical transmitter or transceiver is further capable of operating in both burst and continuous modes.

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